Coding Challenge

General

This task is designed to assess skill and experience as a developer and your ability to think critically.

- You will be evaluated both on how it functions and how the code is written.
- You may use any language, framework, platform, or tool you like.
- You will not be evaluated on the aesthetics of the project, provided they do not interfere with other aspects of the project.
- You should adhere to all general UI standards.
- You should expect to spend an hour on this challenge.
- You may spend as much time as you like, but having more complete does not mean a better score.
- You are **not** required to complete tasks in order and may skip any task and complete ones
 after it if you so chose.
- You are **not** required to complete all aspects of the assessment.
- You may use any resources you like, including other people, provided you do not copy other
 works, can explain the resulting code, and can defend the decisions you made.
- No matter how much or how little you have done, **ensure it runs**.

Tasks

- 1. Parse the provided JSON file containing information about the states.
- 2. Create a list of all states. The layout should be easily modified, but initially each item in the list should contain:
 - A. The state's name.
 - B. An image of the state's flag, loaded from the provided url. **Be sure to preserve the original image aspect ratio.**
- 3. When the user selects an item from the list, present a new screen with more detailed information about that state. That screen must also have a way to navigate back to the original list, such as a back button.
- 4. On the detail screen, add a toggle to allow the user to indicate if they have visited that state or not.
- 5. On the detail screen, add the ability to select a date (month, day, and year) when the user first visited that state. A user may not enter a date on states they have not visited and if a user unmarks the state, the date must also be cleared.
- 6. Add an indicator to the list screen that shows if the state has been visited. It must update appropriately when the user toggles a state on the detail screen.
- 7. Add a button to clear all visited states.
- 8. Ensure the list of visited states persists between launches.
- 9. Add sorting and filtering options to the list of states. Suggestions might be to sort by visited states first, alphabetical, or most populous states first.